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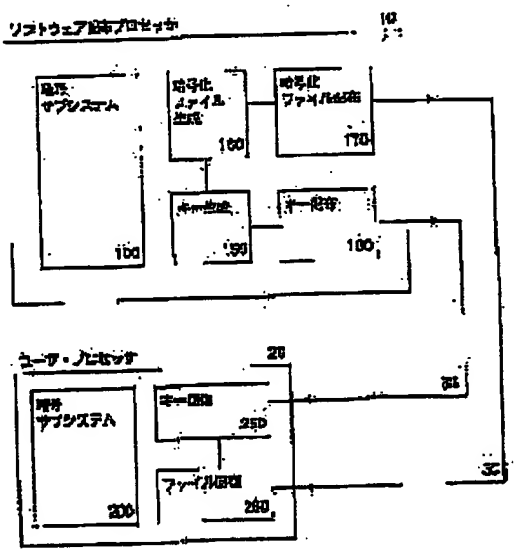
(54) SOFTWARE DISTRIBUTION SYSTEM AND ITS METHOD

(57)Abstract:
PURPOSE: To provide a software distribution system whose safety protection function is enriched.
CONSTITUTION: In a software distribution processor 10, respective plural software files are respectively ciphered by using file ciphering keys corresponding to them and then recorded on a CD-ROM for instance. In the case that a user processor 20 requires the execution of a specified software file, a request is sent from the user processor 20 to the software distribution processor 10. In response to the request, the ciphered file ciphering key corresponding to the file in the request is returned to the user processor 20. In this case, the user processor 20 can decipher only the requested file on the CD-ROM. The other files on the CD-ROM are kept in a ciphered form as they are, and even when the file ciphering key received from the software distribution processor 10 is used, the files can not be deciphered.



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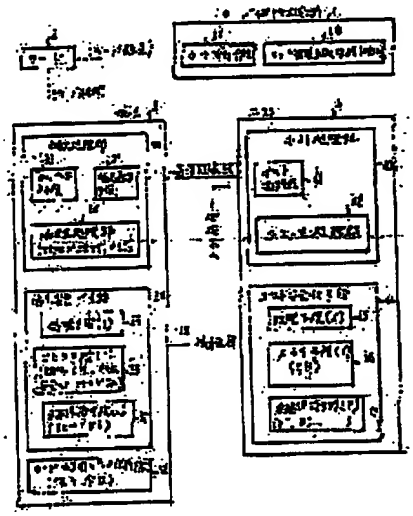
(54) CARD UTILIZING SYSTEM

(57)Abstract:
PURPOSE: To prevent various data from being falsified illegally by constituting the system so that a host equipment holds each terminal key, each terminal holds the terminal key and a card key and the detection of falsification is executed by both the terminal and the host equipment.
CONSTITUTION: A card issue part 1 uses a card key (CK) held by a card key generating and holding means 10, generates card data and a verifier being a function of the CK by a card issue means 11, and writes them in a card 2 and issues it. When a terminal 3 requests delivery of a terminal security program (TP) through a communication circuit 50 to a host computer (HC) 4, the HC 4 calls back the terminal 3, and also, confirms a terminal key. Subsequently, an authenticator is generated and the TP is enciphered and sent to the terminal 3. The terminal 3 decodes it and generates the authenticator, and by a terminal security means 34, the generated verifier and the authenticator read from the card 2 are compared and the coincidence is confirmed. Card utilization data received by the HC is also confirmed by the same method. In such a way, it can be prevented that various data are falsified illegally.



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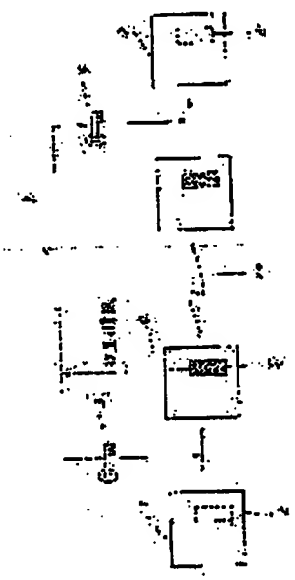
(22)Date of filing : 07.07.1989

(71)Applicant : HITACHI LTD
(72)Inventor : MOROFUSHI MAKIKO
FURUMURA FUMINOBU

(54) SECRECY METHOD FOR PICTURE DATA

(57)Abstract:
PURPOSE: To reduce the processing time and the cost by ciphering only a partial area in a picture data desired especially to be handled with confidentiality.
CONSTITUTION: A partial area 2 desired to be handled with confidentiality in an original picture 1 is ciphered by using a cryptographic key 3. A picture 4 after secrecy processing is processed in such a way that areas other than the partial area 2 of the original picture 1 is unprocessed and a ciphered partial area 5 is embeded to a position where the partial area 2 has been resident. The picture 4 after secrecy processing is sent through a general transmission line 10. In order to obtain original picture information from the sent picture, the ciphered partial area 5 is decoded by using a decoding key 6 and a decoded partial area 8 is embeded to a position where the ciphered partial area 5 has been resident. Since ciphering is processed only to part in the picture data, the processing time is less than the case with ciphering the entire picture and the cost is reduced.



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